

Launch Mission Execution Forecast

Mission: Falcon 9 Starlink 5-6

Issued: 3 May 2023 / 0830L (1230Z)

Valid: 4 May 2023 / 0319 – 0712L (0719 – 1112Z)



Forecast Discussion: A weak surface boundary that is currently moving across central Florida is bringing in a reinforcing push of cooler and drier air across the region. There is some upper-level moisture associated with the boundary and this is allowing some cirrus clouds to move across central Florida. This trend will continue into tonight with respect to cloud cover. Expect only a small chance for cumulus clouds and a chance for upper-level clouds. Therefore, the primary weather concern for tonight will be the Cumulus Cloud Rule.

In the event of a 24-hour delay, more of the same type of weather expected to continue. A surface high pressure over the southeast US will shift a little eastward toward the east coast. This will cause the northwest winds over the Space Coast to shift more to the east. Otherwise, the dry conditions will maintain only a small potential for cumulus clouds. Therefore, the primary weather concern for the backup day will be from the Cumulus Cloud Rule.

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	Probability of Violating Weather Constraints ¹									
ich Day	5% Primary Concerns: Cumulus Cloud Rule									
	Weather Conditions								Additional Risk Criteria ²	
aunch	Weather/Visil	bility:	None /7 mi.		Туре	Cloud: Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
_	Temp/Humid	ity:	61°F / 78%		Cumulus	Few	2,000	4,000	Booster Recovery Weather:	Low
	Liftoff Winds	(200'):	330° 12 - 17 mph	า	Cirrus	Few	25,000	28,000	Solar Activity:	Low
	Probability of Violating Weather Constraints									
Delay	5% Primary Concerns: Cumulus Cloud Rule									
	Weather Conditions							Additional Risk Criteria		
24-Hour	Weather/Visibility: None / 7 mi.			Туре	Cloud: Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
24	Temp/Humid	ity:	68°F / 76%		Cumulus	Few	2,000	4,000	Booster Recovery Weather:	Low
	Liftoff Winds (200') : 080° 10 - 15 mph							Solar Activity:	Low	
Notes	 The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window. Additional Risk Criteria, which are not included in the PoV, are mission-specific constraints that may not include all phenomena within each risk factor. 									
Ž	See https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf for more information									
Next Forecast Will Be Issued As required										